

# VDH - LAND APPLICATION OF BIOSOLIDS SITE INSPECTION FORM

<b>GENERAL INFORMATION:</b>		DATE: 7/11/2005(email received), 7/11/2005(on site)	
COUNTY: Louisa	CONTRACTOR/MUNICIPALITY: Synagro Mid Atlantic		
NAME (OWNER/OPERATOR): Fred Massie			
INSPECTED BY: Scott Haley (writer)		PERMIT NO: VDHBUR 77	
FIELD NO: LO7 Fields 1, 2A, 2B		ACRES: 1-26.5, 2A- 6.9, 2B-4.1	
OTHERS PRESENT: <b>Mr. Massie (Farmer), Mr. Peter Wenkeman (Synagro)</b>			
<b>FIELD DATA/OBSERVATIONS:</b>		TIME: 1300	
WEATHER: Sunny		SOIL CONDITIONS: Dry	
BIOSOLIDS SOURCE: Blue Plains/Arlington/Mattawomen		BIOSOLIDS TYPE: Lime stabilized	
SOIL pH: 6.1		SOLIDS CONTENT OF BIOSOLIDS (%): 27, 31, 20	
APPLICATION RATE: 100 lbs PAN target rate (see comments)			
CROP AND EXPECTED YIELD: Hay (see comments)			
LOAD TO DATE (WT): (see comments)			
BIOSOLIDS APPLIED:	<input type="checkbox"/> LIQUID		<input checked="" type="checkbox"/> DEWATERED
MODE OF APPLICATION:	<input checked="" type="checkbox"/> SURFACE	<input type="checkbox"/> SURFACE W/INCORP.	<input type="checkbox"/> INJECTION
APPLICATION LIMITED BY:	<input checked="" type="checkbox"/> NITROGEN 200lbs PAN max.	<input type="checkbox"/> pH	
	<input type="checkbox"/> MAX. HYDRAULIC LOADING (LIQUID BIOSOLIDS)		
	<input type="checkbox"/> MAX. SOLIDS LOADING (15 DRY TONS/ACRE)		
	<input type="checkbox"/> OTHER (SPECIFY):		
<b>FIELD OBSERVATIONS</b>			
	BUFFERS OBSERVED:	<u>YES</u>	<u>NO</u>
	UNIFORM APPLICATION:	X	
	PROPER FIELD RECORDS:	X	
	SIGNS OF RUNOFF:		X
Not observed	TRUCKS NON-SPILL/WATERTIGHT: N/A		
	CONDITION OF HAUL ROUTE SATISFACTORY:	X	
ODORS PRESENT:	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> NORMAL	<input type="checkbox"/> ABOVE NORMAL*
OVERALL CONDITION OF SITE:	<input checked="" type="checkbox"/> GOOD	<input type="checkbox"/> FAIR	<input type="checkbox"/> POOR



<p><b><u>COMMENTS: (*explain):</u></b></p> <p><b>**PAN = Plant Available Nitrogen</b></p>	<p>Mr. C.W. Williams notified Cal Sawyer and Scott Haley by email of a complaint about land application activities in Louisa County. The complaint involved the land application of biosolids less than 1,000 feet from Oakland Road residence.</p> <p>Mr. Williams stated that a prior notification had identified that the occupant of the residence was suffering from a serious illness, but did not identify to whom the notification was given.</p> <p>Mr. Scott Haley contacted the local Health Department, the local Health District, and Louisa County to determine if there had been prior notification regarding the resident's condition. No-one could recall receiving any notice concerning the health condition of the resident.</p> <p>Mr. Scott Haley traveled to the site, arriving @ 1:00 PM, on July 11, 2005. He determined that the on-site odors were only slightly noticeable and detected slightly noticeable odors to North East of the farm entrance along Oakland Road (State Route 613).</p> <p>The distance between the closest point of land application to the property corner of the residence was measured at approximately 700 feet. The residence structure was located approximately an additional 70 feet from the property line corner. The Biosolids Use Regulations require that buffers from adjoining properties for surface application must be 100 feet or greater and the buffer distance from occupied dwellings must be maintained at 200 feet or greater. No odors were detected at the corner of the resident's property.</p> <p>Land application was completed on the fields on July 7, 2005.</p> <p>Application rates target PAN rate for these fields is 100lbs PAN/ac.</p> <p>Field 1 Source – Blue Plains  WT applied 329.44 / 25.6 acres applied = 12.86875 WT/ac. X 0.2749 = 3.54 DT/ Ac.  Actual rate of application: 3.54 X 24.6 lbs PAN/ DT = 87lbs PAN / Ac.</p> <p>Field 2A Source Arlington  WT applied – 45.26 / 6.1 acres applied = 7.4196 WT/ac. X 0.3138 = 2.33 DT/ Ac.  Actual rate of application: 2.33 X 23.1 lbs PAN/ DT = 54 lbs PAN / Ac</p> <p>Field 2B Source Mattawoman  WT applied – 19.84 / 4.1 acres applied = 4.839 WT/ac. X 0.2061 = 1.0 DT/ Ac.  Actual rate of application: 1 X 24.1 lbs PAN/ DT = 24 lbs PAN / Ac</p>
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